Extraordinary
new
composition
software
that
delivers
significant
advances
in
Speed
and
Interactivity…

PentaQuick

PENTAQUICK

Speed and Interactivity

When we completely rewrote our original text processing software, PentaWare, we named the new software package PentaQuick for one very good reason: the *speed* at which it performs automated text processing. When the hardware configuration of a Penta system features one of Data General's powerful minicomputers, the Nova 4/X or Eclipse S/140, PentaQuick achieves text processing speeds of over 1,000 characters per second. Now that's fast!

What that means is that all the text processing features on which our reputation was initially built are retained in the PentaQuick software, along with superb typographic quality; the only thing that's changed is the speed of processing for the following automated functions:

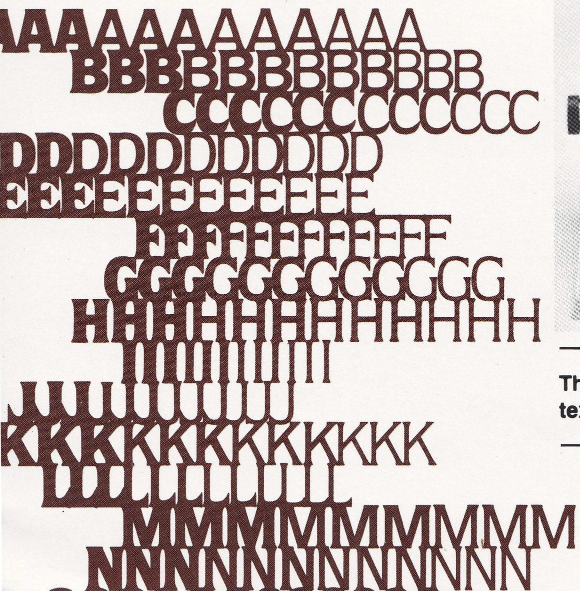
- **hyphenation and justification (H & J)**
- **kerning**
- **ragged copy settings**
- **calculation of tabular alignment**
- **selection of pi characters (symbols)**
- **indention**
- **foreign language hyphenation**

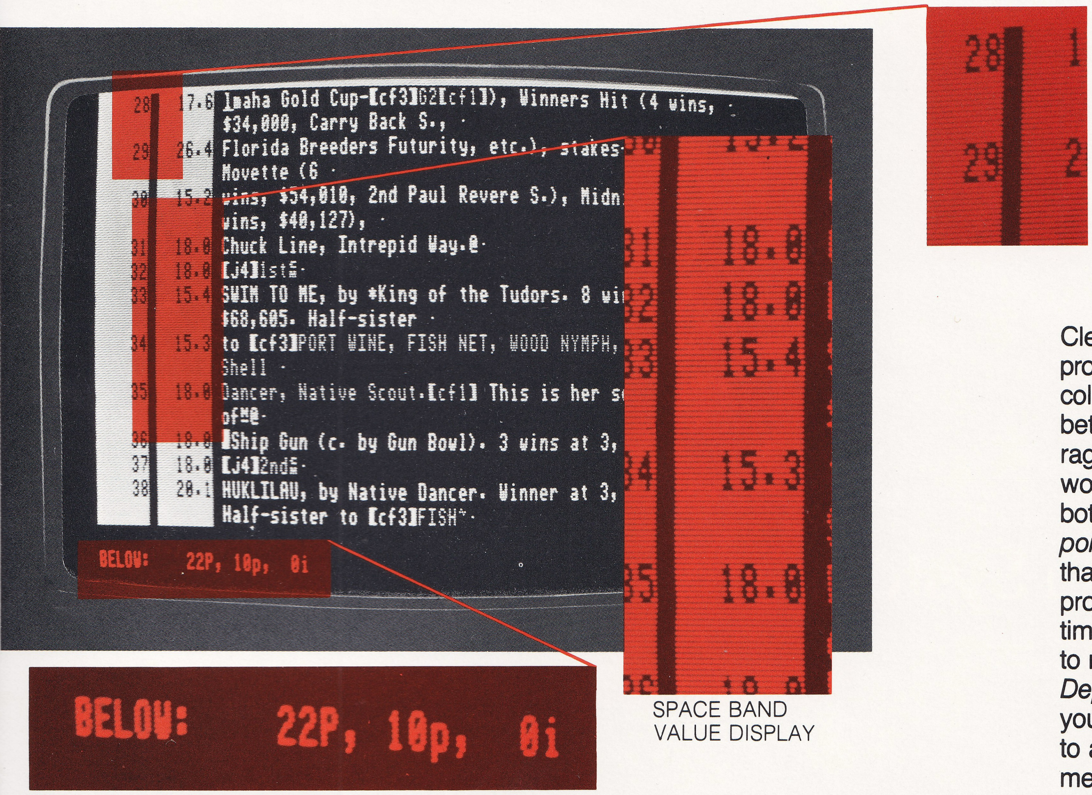
PENTA
PENTA
Penta
Penta
Penta
Ye Va Ta
Ye Va Ta

Automated text processing is performed in the background mode. The system processes text captured on or off-line from practically any keyboarding source or via any medium of transmittal you can imagine. Because the system employs a Multitask Processing Program which automatically moves to the next priority job as text processing is completed on one job (the operator assigns a priority rating to each singular job as it is entered in the system), processing goes on in this mode at great speed—and with little or no intervention.

In addition to automatic text processing, PentaQuick makes interactivity a lot faster. Interactivity can occur for editing and correction cycles, and for those occasions when operator intervention is needed to achieve the graphic effects required by the particular job, for instance, in setting a really complex ad. The increase in efficiency for the foreground interactivity mode is accomplished by making it easier for the operator to locate areas that need to be worked on, and by improving the system's efficiency in calling those areas up on the screen and reprocessing sections of text as necessary.

There are numerous indent commands available to the Penta user. Shown above is the text output utilizing a depth-counting wrap left command to accommodate a photo.





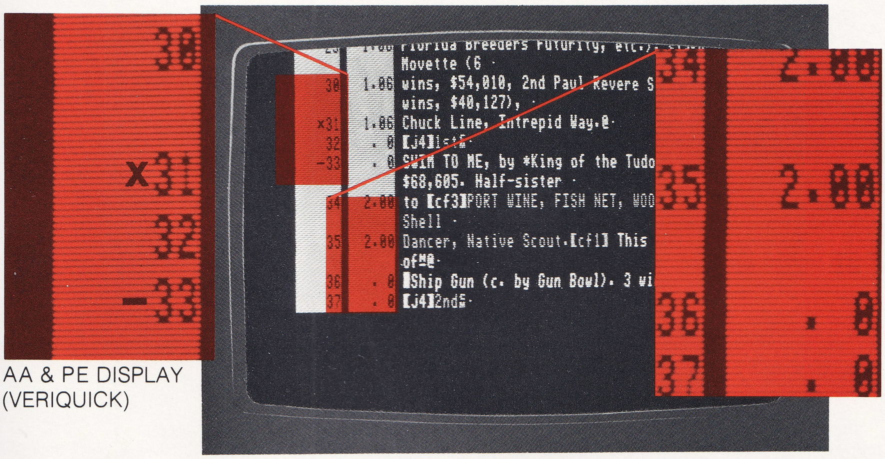
```
28 17.6 Imaha Gold Cup-[cf3]G2[cf1]), Winners Hit (4 wins, ·
        $34,000, Carry Back S., ·
29 26.4 Florida Breeders Futurity, etc.), stakes-
        Movette (6 ·
30 15.2 wins, $54,010, 2nd Paul Revere S.), Midn
        wins, $40,127), ·
31 18.0 Chuck Line, Intrepid Way.@·
32 18.0 [J4]1st·
33 15.4 SWIM TO ME, by *King of the Tudors. 8 wi
        $68,605. Half-sister ·
34 15.3 to [cf3]PORT WINE, FISH NET, WOOD NYMPH,
        Shell ·
35 18.0 Dancer, Native Scout.[cf1] This is her s
        of@·
36 18.0 Ship Gun (c. by Gun Bowl). 3 wins at 3,
37 18.0 [J4]2nd·
38 20.1 HUKLILAU, by Native Dancer. Winner at 3,
        Half-sister to [cf3]FISH*·

BELOW:   22P, 10p,  0i
```

PINPOINT SCROLLING
(LINE CALLED UP ON
SCREEN BY LINE NUMBER)

SPACE BAND
VALUE DISPLAY

DEPTH VALUE MEASUREMENT DISPLAY



```
    1.06 Florida Breeders Futurity, etc.),
         Movette (6 ·
30  1.06 wins, $54,010, 2nd Paul Revere S
         wins, $40,127), ·
x31 1.06 Chuck Line, Intrepid Way.@·
32    .0 [J4]1st·
-33   .0 SWIM TO ME, by *King of the Tudo
         $68,605. Half-sister ·
34  2.00 to [cf3]PORT WINE, FISH NET, WOO
         Shell ·
35  2.00 Dancer, Native Scout.[cf1] This
         of@·
36    .0 Ship Gun (c. by Gun Bowl). 3 wi
37    .0 [J4]2nd·
```

INDENT
LEFT
VALUE
DISPLAY

AA & PE DISPLAY
(VERIQUICK)

Clever features invented by Penta programmers—like the *Justifier Value* column that indicates space used between words on a line, in both ragged and justified settings—make working at the PentaVue screen both easier and more efficient. *Pinpoint Scrolling*—a Penta exclusive that assigns a number to every processed line—cuts the searching time to a minimum when it's time to make corrections or revisions. *Depth Value Measurement* allows you to measure depth from any line to any line; bi-directional measurement is another nice feature that allows for more accurate copyfitting in the interactive mode, particularly helpful in advertising typography. The *VeriQuick* feature, which comes free with the Quick package, helps you distinguish Author's Alterations from Printer's Errors, and flags lines that need second proofreading. And Penta's *Tabulation* program dramatically reduces both the time and the difficulty of setting tabular matter; a simple command, and tabulation is automatically done.

A little of PentaQuick's quickness comes from sheer ingenuity. Rather than going back to line 1 and hyphenating and justifying the whole job again after minor or extensive spot revisions, our program permits re-hyphenation and justification of just the affected lines. And that saves a lot of processing time. But the main point you need to know is that PentaQuick improves both automated text processing *and* interactivity. And that spells productivity gains.

<table>
<tr><td rowspan="3">Note that multiple point sizes and leadings are still allowed.</td><td colspan="4">This line straddles 4 columns.</td><td colspan="2" rowspan="2">These lines straddle 2 columns horizontally and 2 straddle heads vertically.</td></tr>
<tr><td colspan="2">This line straddles 2 columns.</td><td colspan="2">This line also straddles 2 columns</td></tr>
<tr><td>Column heading</td><td>Column heading</td><td>Column heading</td><td>Column heading</td><td>Column heading</td><td>Column heading</td></tr>
<tr><td rowspan="3">This is another example of straddle heads</td><td colspan="4">Equations are also supported within tabular.
$$\mu = \frac{\sum_{i=1}^{3m+3} \sqrt{3x_i^2 + 16}}{\int_a^b g(x)dx + \int_b^c g(x)d_ix}$$</td><td colspan="2">The user is the one that decides the number of straddle heads that a straddle head is to vertically align with.</td></tr>
<tr><td colspan="2">a two column straddle</td><td colspan="2">another 2 column straddle</td><td rowspan="2">Column heading</td><td rowspan="2">Column heading</td></tr>
<tr><td>Column heading</td><td>Column heading</td><td>Column heading</td><td>Column heading</td></tr>
<tr><td colspan="2">A straddle head can start in any column of a table, and the user is not required to type anything under it.</td><td>Another feature of tabular is alignment overrides. Even though the tab stops for this line all designate center alignment,</td><td>bottom alignment</td><td>and top alignment</td><td>are possible.</td><td>As you can see, this is the most powerful tabular program available.</td></tr>
</table>

The table at left shows multiple column straddling heads, automatic vertical rule generation (depending on the phototypesetter), and math equations set within tabular text. It also demonstrates justification within tabular, and automatic vertical alignment — top, bottom, or centered — even when the text is in varying point sizes.

Penta Systems International Inc.

With PentaQuick as standard software, you really do get the best of both worlds — automated text processing *and* maximally efficient interactivity. For further information, complete the enclosed postage paid card, and mail it to us, or call Stephen Dunbar at (301) 244–0050.

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